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PHOTOGRAPHIC INTERPRETATION REPORT



CHRONOLOGY OF AIRCRAFT ENGINE PLANT
BARANOVA 29
OMSK, USSR

Declass Review by NIMA/DOD

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CHRONOLOGY OF AIRCRAFT ENGINE PLANT BARANOVA 29 OMSK, USSR

INTRODUCTION

This report is a study of the chronological development of Aircraft Engine Plant Baranova 29 (54-57N 73-26E), Omsk, USSR. Aircraft Engine Plant 29 is located on the eastern edge of Omsk, immediately north of Omsk Airframe Plant 166. Transportation services include a network of good all-weather roads, a major rail system, and Omsk Airfield East.

The fenced area of Plant 29 covers approximately 225 acres. Since initial photographic coverage by [redacted]

[redacted] a large number of new facilities have been constructed and many of the original facilities have been refurbished and enlarged (Figure 2).

The building-by-building construction history of the plant is presented graphically in Figure 2 and in tabular form in Table 1, which also provides chronological details and interpretations of the basic functions of all structures in the plant; item numbers are keyed to Figure 2 and Table 1.

HIGHLIGHTS OF THE DEVELOPMENT OF AIRCRAFT ENGINE PLANT 29

1957

Aircraft Engine Plant 29 was first observed on [redacted] photography of [redacted] at which time its major facilities consisted of 2 large assembly/shop buildings (items 55 and 56 (Figure 2), a large assembly/test building (item 57), 2 forges/foundries (items 92 and 97), 8 shop buildings (items 30, 31, 33, 47, 98, 99, 101, and 102), and 2 steamplants (items 46 and 78). Other facilities included administration buildings, warehouses, and utility buildings.

1961

[redacted] photography of [redacted] provided the first usable photographic coverage of Plant 29 since [redacted]. A completed transshipment building (item 12) was observed for the first time. A shop building (item 5) and a large assembly/shop building (item 42) were observed in midstage of construction. An addition to an assembly/shop building (item 55) and to a shop building (item 99) were in an early stage of construction.

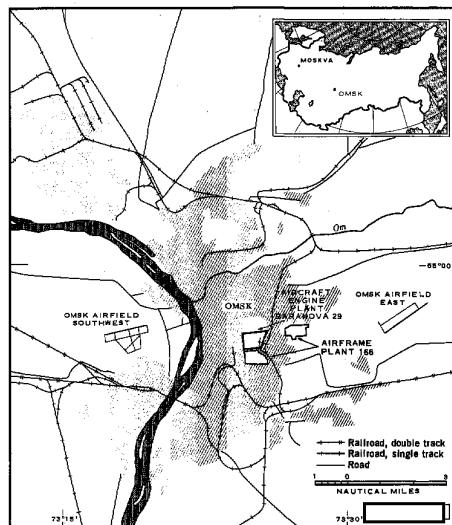


FIGURE 1. LOCATION MAP.

1962

Significant construction occurring during the year included the completion of a shop building (item 5) and the large assembly/shop building (item 42). The addition to one of the assembly/shop buildings (item 55) and to one of the shop buildings (item 99) were also completed. A small shop building (item 13) was erected between [redacted]

[redacted] Photography of [redacted] revealed a large number of small structures such as shops, warehouses, utility buildings, and spray ponds, which were not visible on earlier coverage; many of these structures could have been present or under construction in [redacted]

1963-64

A shop building (item 61) and a small addition to an administration building (item 53) were completed between [redacted]. Construction began on a small administration building (item 1) in [redacted] and on a small utility building (item 104) in [redacted]

1965-67

Activity was relatively light until [redacted] when construction was initiated on a large assembly/shop building adjoining item 5. An administration building (item 1), first observed under construction in [redacted] and a utility building (item 104), first observed under construction in [redacted] were completed. Other construction taking place during this time span included the completion of a small administration building (item 54) and the expansion of an administration building (item 105). The most recent construction activity at the plant is the expansion of the transshipment building (item 12) and the continued construction of the large assembly/shop building adjoining item 5.

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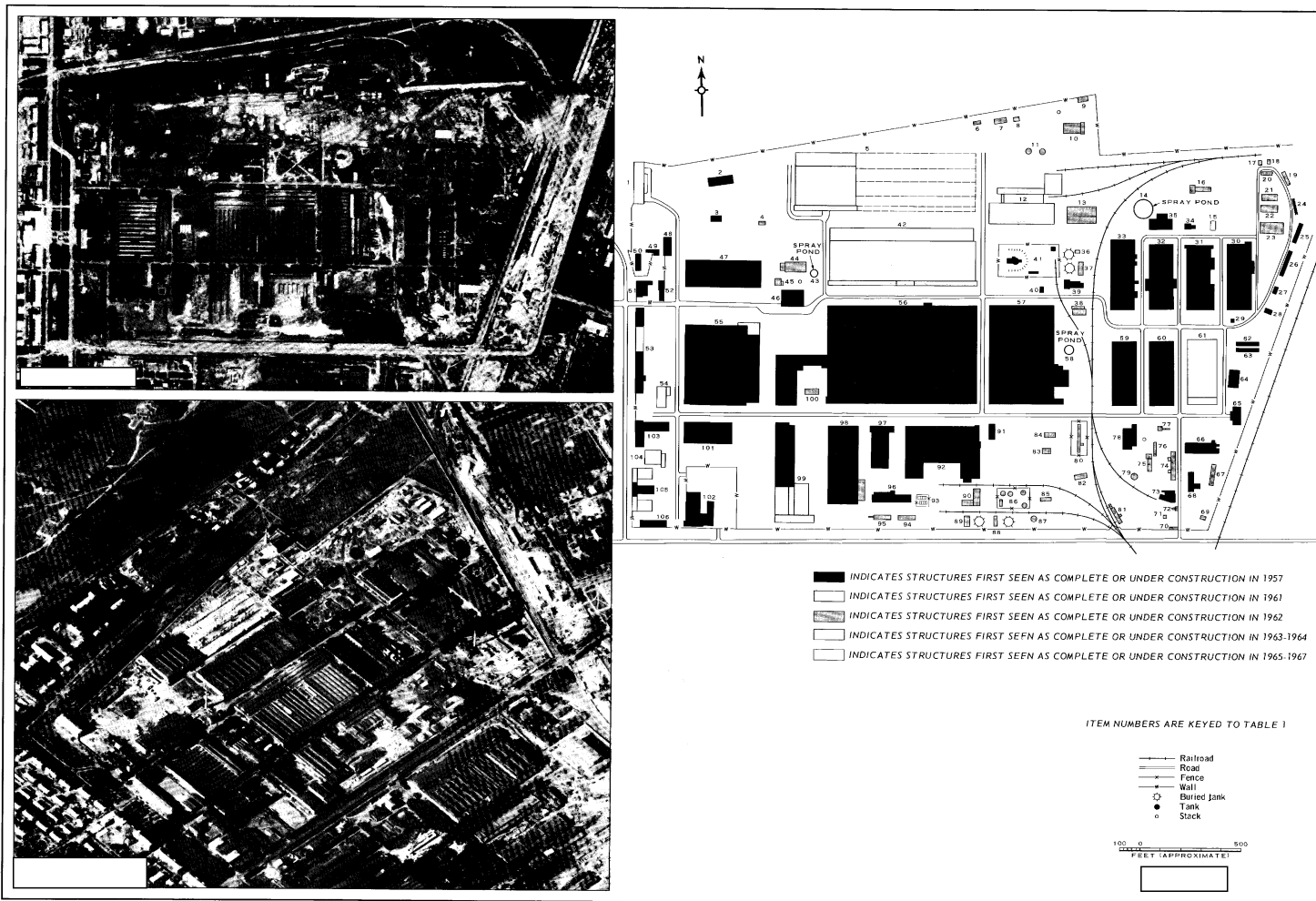


FIGURE 2. AIRCRAFT ENGINE PLANT BARANOVA 29, OMSK, USSR.

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Table 1. Probable Function and Dimensions of Structures at Aircraft Engine Plant Baranovo 29, Omsk, USSR
(Item numbers are keyed to Figure 4)

Item No	Probable Function	Dimensions (ft) L W	Roof Cover (sq ft)	Date First Observed*	Comments	Item No	Probable Function	Dimensions (ft) L W	Roof Cover (sq ft)	Date First Observed*	Comments
1	Admin bldg	250 x 65	16,250		Completed []	32	Utility bldg	Irregular	3,150		
2	Warehouse	150 x 50	7,500			53	Admin bldg	Irregular	28,575		Small section added between []
3	Utility bldg	70 x 30	2,100			54	Admin bldg	Irregular	7,625		Completed []
4	Utility bldg	45 x 25	1,125			55	Assembly/shop bldg	Irregular	217,325		Small section added between []
5	Shop bldg	Irregular	123,225		Completed [] a very large assembly/shop bldg adjoining item 9, first observed u/c in [] upon completion, it will measure approximately 730 x 350 ft	56	Assembly/shop bldg	Irregular	584,625		Refurbishment of small roof underway since [] 50 percent complete in []
6	Utility bldg	40 x 20	800			57	Assembly/test bldg	Irregular	241,000		Contains 14 small U-type acft engine test cells and 3 large L-type acft engine test cells
7	Utility bldg	85 x 30	2,550			58	Spray pond	55 (diam)	--		
8	Utility bldg	40 x 25	1,000			59	Warehouse	325 x 145	57,275		
9	Utility bldg	70 x 30	2,100			60	Warehouse	390 x 150	58,500		
10	Steamplant	Irregular	8,225			61	Shop bldg	Irregular	70,200		Completed []
11	POL tanks (2)	--	--		Each tank, 40 ft in diameter, contains fuel for item 10	62	Warehouse	140 x 20	2,800		
12	Transshipment bldg	Irregular	57,725		An addition, first observed in [] is u/c	63	Warehouse	140 x 20	2,800		
13	Shop bldg	180 x 100	18,000		Completed []	64	Warehouse	105 x 40	6,300		
14	Spray pond	105 (diam)	--			65	Admin bldg	Irregular	6,325		
15	Utility bldg u/c	-- --	--		In early stage of construction	66	Warehouse	Irregular	14,000		
16	Utility bldg	Irregular	4,450			67	Utility bldg	130 x 25	3,250		
17	Utility bldg	40 x 20	800		Prob temporary bldg	68	Utility bldg	Irregular	4,325		
18	Utility bldg	40 x 20	800			69	Utility bldg	35 x 25	875		
19	Utility bldg	60 x 20	1,200			70	Utility bldg	45 x 15	675		
20	Utility bldg	70 x 25	1,750			71	Utility bldg	25 x 20	500		
21	Warehouse	95 x 40	3,800			72	Utility bldg	Irregular	850		
22	Warehouse	110 x 40	4,400			73	Shop bldg	Irregular	4,900		
23	Warehouse	150 x 65	9,750			74	Processing bldg	Irregular	6,000		
24	Warehouse	90 x 20	1,800			75	Utility bldg	Irregular	3,000		
25	Warehouse	120 x 20	2,400			76	Utility bldg	85 x 20	1,700		
26	Warehouse	165 x 20	3,300			77	Utility bldg	Irregular	1,225		
27	Utility bldg	55 x 25	1,375			78	Steamplant	Irregular	10,400		
28	Utility bldg	40 x 25	1,000			79	POL tank	40 (diam)	--		Contains fuel for item 78
29	Utility bldg	25 x 25	625			80	Utility bldg	Irregular	4,150		
30	Shop bldg	Irregular	56,750		Bldg enlarged and almost completely rebuilt between []	81	Utility bldg	Irregular	4,225		
31	Shop bldg	Irregular	59,675		Roof refurbished between []	82	Utility bldg	80 x 30	2,400		
32	Warehouse	Irregular	59,050		Roof refurbished between []	83	Utility bldg	60 x 35	2,100		
33	Shop bldg	Irregular	59,175		Bldg enlarged and almost completely rebuilt between []	84	Utility bldg	65 x 30	1,950		
34	Utility bldg	Irregular	1,625			85	Utility bldg	70 x 25	1,750		
35	Utility bldg	Irregular	10,900			86	POL storage area	-- --	--		Contains 4 POL tanks, each 25 ft in diam, and a small pumphouse
36	Utility bldg	30 x 20	600			87	POL tank	35 (diam)	--		
37	Pumphouse	85 x 30	2,550			88	Pumphouse	65 x 25	1,625		A large u/g prob water tank located adjacent to the bldg
38	Utility bldg	Irregular	4,250			89	Pumphouse	65 x 40	2,600		A large u/g prob water tank located adjacent to the bldg
39	Utility bldg	Irregular	4,275			90	Shop bldg	Irregular	7,550		
40	Utility bldg	35 x 20	700			91	Utility bldg	65 x 40	2,600		
41	POL storage area	-- --	1,150		Two u/g POL tanks located adjacent to bldg	92	Forge/foundry	Irregular	119,625		
42	Assembly/shop bldg	Irregular	302,100			93	Spray pond	75 x 75	--		Serves the forge/foundry (item 92)
43	Spray pond	50 (diam)	--			94	Warehouse	100 x 35	3,500		
44	Shop bldg	Irregular	8,250		Contains u/g POL tanks; a pumping station; and 2 small utility bldgs, probably connected to the acft engine assembly/test bldg (item 57)	95	Warehouse	Irregular	3,000		
45	Utility bldg	Irregular	1,775		Completed []	96	Shop bldg	Irregular	14,200		
46	Steamplant	150 x 95	14,250			97	Forge/foundry	Irregular	24,975		
47	Shop bldg	Irregular	70,075			98	Shop bldg	Irregular	87,875		Small section added between []
48	Admin bldg	115 x 45	5,175			99	Shop bldg	Irregular	77,700		Large section added between []
49	Utility bldg	Irregular	1,575			100	Utility bldg	85 x 35	2,975		
50	Utility bldg	100 x 35	3,500			101	Shop bldg	Irregular	35,900		
51	Fire station	Irregular	7,450			102	Shop bldg	Irregular	25,400		
						103	Admin bldg	Irregular	18,075		
						104	Utility bldg	Irregular	10,200		Completed []
						105	Admin bldg	Irregular	25,125		Tripled in size between []
						106	Utility bldg	165 x 40	6,600		

*Complete when first observed unless otherwise noted.

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REFERENCES

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MAPS OR CHARTS

SAC. US Air Target Chart, Series 200, Sheet 0163-10

REQUIREMENT

CIA. C-DI5-82,973

NPIC PROJECT

11212/66 (partial answer)

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